Theater High Altitude Area Defense (THAAD) Media Update



9 JUL 98

Lt Gen Lester L. Lyles, USAF
Director
Ballistic Missile Defense Organization



THAAD SYSTEM ELEMENTS

Missile

- ATBM Hit-To-Kill Interceptor With Endo / Exoatmospheric Capability
- Kill Vehicle On A Single-stage Solid Propellant Booster
- Autonomous Onboard Navigation
- Refines Navigation Using In-flight Updates
- Kill Vehicle Acquires, Tracks, And Intercepts Target During Last Seconds Of Flight



Launcher

- Design Based On Palletized Load System (PLS) Truck
- Elevates Missile, Checks Health / Status And Launches Missile



Accommodates 10 Missiles; Rapid Reload Capability



BM/C4I

- Generates Launch Command Based On Calculated Target Trajectory
- Schedules And Commands In-flight Target Updates To Missile
- Performs Threat Assessment And Prioritization, Engagement Optimization And Mission Control
- Interoperable With PATRIOT And Other Air Defense Systems



Radar

- Phased Array X-band Antenna
- Acquires And Tracks Missile And Target
- Uplinks Target Updates To Missile During Flight
- Provides Early Warning Of TBM Attack
- Provides TBM Attack Data To Permit Accurate And Timely
 - Attack Assessment And Target Discrimination
 - Counterstrike Operations Against Enemy TBM Launch Sites
 - Interception Of Enemy Missiles (Fire Control And Kill Assessment)





THE TMD FAMILY OF SYSTEMS

THAAD



ABL (Funded By USAF)



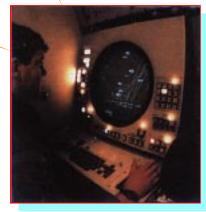
MEADS



Navy Area



BM/C³



Battle Management / Command, Control And Communications

PATRIOT



Space Sensors

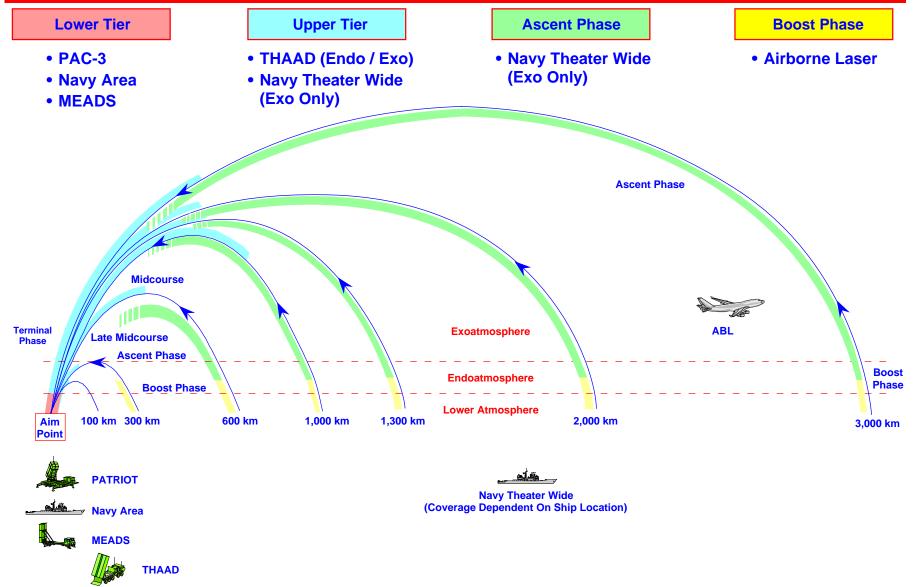


Navy Theater Wide





THEATER MISSILE DEFENSE





THAAD SYSTEM





THAAD FLIGHT TEST SUMMARY

	FT-01	FT-02	FT-03	FT-04	FT-05	FT-06	FT-07	FT-08
Mission	Propulsion (No Target)	Controllability (No Target)	Flyby (Acquire Seeker Data)	Exo Intercept	High Endo Intercept	High Endo Intercept (Repeat FT-05)	High Endo Intercept	High Endo Intercept
Radar	Surrogate	√	←	THAAD Radar	(Shadow Mod	e)	Final Segment	√
Launcher	Interim	√	√	√	THAAD Launcher	√	√	√
BM/C ³ I	NA	NA	√	√	√	√	√	✓
Missile	√	Range Safety Termination – Short In Flare Ordnance	Target Not Designated – FPA Edge Saturation	DACS Fuel Depleted – Software Error In IFTU Logic	Separation Anomaly – Connector Failure	Seeker Anomaly – Contamination	DACS Anomaly – Cable Electrical Problem	Boost Controllability Loss

Demonstrated Significant Steps In System Integration – Anomalies Not Caused By Design Limitations



FAILURE ANALYSIS CLOSURE PLAN

- Program Reviews / Milestones
- Flight Test-08
 - Hardware Recovery
 - Team Formation
- Failure Analysis
 - Fault Tree
 - Missile Telemetry
- Testing (Sim Lab)
- Hardware Inspection And Dissection
- Cause(s) Isolated And Identified
- Root Cause Identified



LOCKHEED MARTIN CURE PLAN

Major Features

- LMMS Presented New Organization Structure For The Flight Test Program
- Five Review Teams Have Been Established
- LMMS And Government Still Negotiating Terms
 Of Cost-sharing Agreement



THE ROAD AHEAD

- Completing FT-08
- Preparing For FT-09, FT-10, FT-11
- Entry Into EMD
- Field THAAD For The Warfighter